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TGSZJR-LAPTOP

COMPUTED BY:	Zachary Richard, PE	**DATE:**	10/12/2022
CHECKED BY:	David Petty, PE	**DATE:**	10/12/2022

PROJECT NO.	SHEET NO.
A-0009CD	3D-5

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".**

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54 INCHES & OVER)

LINE & STATION	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	REMARKS
Y2 141+15	106 RT	4801						
		4801	4802		1952.7	1950.2		
Y2 141+26	66 RT	4802		1957.0				JB with Slab Lid
		4802	4803		1950.2	1941.2		TRENCHLESS INSTALLATION, L=146'
Y2 141+42	83 LT	4803		1948.0				JB with Slab Lid
		4803	4804		1941.2	1937.6		

Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC)

FROM	TO	54	60	66	72	78	84	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
4801												
4801	4802											
4802												
4802	4803											
4803												
4803	4804											
SHEET TOTALS												
PROJECT TOTALS												

C. A. A. PIPE and R. C. PIPE CLASS III (SIZE / THICKNESS OR GAUGE)

FROM	TO	C.A.A. 54 (.105)	C.A.A. 60 (.135)	C.A.A. 66 (.164)	C.A.A. 72	C.A.A. 78	C.A.A. 84	R.C. 54	R.C. 60	R.C. 66	R.C. 72	R.C. 78	R.C. 84
4801													
4801	4802		40										
4802													
4802	4803												
4803													
4803	4804		60										
SHEET TOTALS			100										
PROJECT TOTALS			100										

FROM	TO	60" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	60" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.04 OR STD. 838.14 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A: 5' THRU 10' LIN. FT.	B: 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G	
4801					5.900									
4801	4802													
4802						4.400								
4802	4803	73	73											
4803						4.400								
4803	4804													
SHEET TOTALS		73	73		5.900	8.800								
PROJECT TOTALS		73	73		5.900	8.800								

FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30
4801																				
4801	4802																			
4802																				
4802	4803																			
4803																				
4803	4804																			
SHEET TOTALS																				
PROJECT TOTALS																				

FROM	TO	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.
4801																		
4801	4802																	
4802		1																
4802	4803																	
4803		1																
4803	4804																	
SHEET TOTALS		2																
PROJECT TOTALS		2																

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT